

WHAT WE CLAIMED IS:

1. A light source system, comprising light emitting diodes with different light emitting colors arranged at a predetermined ratio of quantities of diodes, said ratio of quantities of diodes is determined based on light emitting status for each diode of each color so that a projected light has chromaticity of a desired color, and total quantity of said light emitting diodes is set so as to satisfy said ratio of quantities of diodes.

2. A light source system according to claim 1, wherein said light emitting diodes are arranged on a spherical curved surface.

3. A light source system according to claim 1, wherein said light emitting diodes are arranged on an elliptical surface of rotation or on a parabolic surface of rotation.

4. A light source system according to claim 1, wherein said light emitting diodes are arranged in form of concentric and multiple circles.

5. A light source system according to claim 4, wherein said concentric and multiple circles comprise circles, wherein light emitting diodes with different light emitting colors are arranged.

6. A light source system according to claim 4, wherein said concentric multiple circles comprise circles, wherein light emitting diodes of the same light emitting color are arranged on each circle.

7. A light source system according to claim 1, wherein light emission of the light emitting diodes is controlled for each different color.

8. A light source system according to claim 1, wherein there are provided a mixer for projecting a plurality of incident monochromatic lights as a light mixed with said monochromatic lights and a light guiding means for entering the light in each of said light emitting diodes to said mixer.

9. A light source system according to claim 8, wherein said light guiding means is a condenser lens corresponding to each of said light emitting diodes on 1:1 basis.

10. A light source system according to claim 9, wherein there are further provided a cone-shaped light source cover for covering said light emitting diodes, said condenser lens is arranged on a curved surface concentric with a surface where said light emitting diodes are arranged, and said mixer is mounted at a vertex of said light source cover.